

Above Ground Rainwater Pump

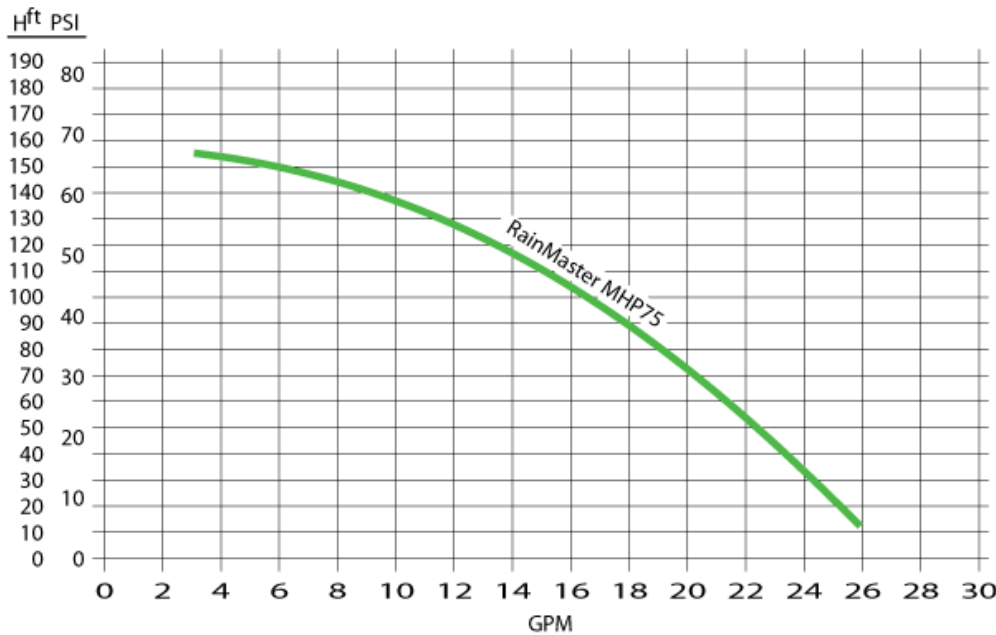
High performance multi-stage rainwater pump for residential rainwater collection systems.

External Mounting Capability:

The RainMaster above ground pump is specially designed for the unique requirements of rainwater collection systems. Equipped with a large threaded side inlet for connection to a floating filter, these pumps must be installed horizontally and they can be mounted externally on the ground or other platform. Other features include a stainless steel base, optional float switch for run-dry protection, integrated capacitor housed in a wiring box with circuit breaker and master on/off switch for long life and ease of maintenance.



Pump Performance:



Durable, Dependable and High Performance:

Available in a 3/4 HP, 115V model, construction consists of 304 stainless steel housings, dual Italian mechanical seals, American thermal protection, GE-Noryl diffuser and steel impellers, integrated starting capacitor and a 5 foot power cord. The pump is particularly quiet and durable from its solid construction. The water end is installed adjacent to the motor. The motor is air-cooled. The Noryl impellers and diffusers offer high abrasion resistance while the Italian double mechanical seals ensure long life and enhanced reliability.

Ball bearings are self-lubricating and internal cast iron components are electrocoated with polybutadiene varnish to prevent corrosion which is sometimes associated with the typical lower pH of rainwater.

Installation must be oriented horizontal and water must be available at the intake to prevent a run-dry condition.

Specifications:

RainMaster Submersible Pumps	
Model No.	MHP75
Horsepower:	0.75
Nominal Voltage Range:	110-115 VAC, 60Hz, 9A max.
P1kW:	0.96
P2kW:	0.75
Impeller stages:	3
Maximum flow:	26 GPM
GPM at 60 psi (0 Head):	9.2 GPM
GPM at 50 psi (0 Head):	14 GPM
Maximum head:	164' TDH
System pressure:	Up to 65 psi
Inlet/Outlet size:	1" FPT
Weight:	22 Lbs.
Dimensions:	15.9" X 9.1" X 6.5" (incl. base)
Thermal protection:	Yes
Motor:	2-pole induction, Continuous duty
RPM:	3450
Cooling:	Air Cooled
Insulation class:	F
Protection:	IP55
Certifications:	TUV, CCC
Warranty:	1 Year

Application:

The MHP75 is a mini horizontal centrifugal pump with a wide range of applications in domestic water supply.

They are used for:

- Rainwater harvesting systems
- Irrigation systems
- Toilet flushing
- Industrial cleaning conveyance and circulation of liquid
- Water treatment (Water purification)
- Domestic water supply
- Pressure boosting situations
- Many other special uses

Working conditions:

- Clean, non-flammable and non-explosive liquid
- Liquid without solid grain or fibers
- Liquid temperature:
 - Low Temperature: -4 degrees Farenheit
 - High Temperature: 158 degrees Farenheit
- Max environmental temperature: 122 degrees Farenheit
- Max operating pressure: 145 PSI
- Max suction pressure is limited by max operating pressure

Installation Instructions

Mounting location:

The pump must be mounted in a horizontal orientation and must be mounted externally on the ground or other sturdy platform. When mounted externally, the pump must be safely and securely mounted in a manner which prevents exposure to electrical connections and in a location which prevents damage and exposure to freezing temperatures.

Environmental considerations:

If the pump may be exposed to freezing temperatures, the pump must be fully drained and protected with a food-grade antifreeze. The pump offers water resistance but should be mounted in a location away from direct exposure to rain, humidity, snow, excessive heat and direct sunlight.

Pump Power:

The RainMaster MHP75 comes with a 5 foot drop cord. This cord may be directly plugged in to a 115 volt wall outlet that uses a 15 amp circuit breaker. Upon connection, without a pump controller or pressure switch setup, the pump will turn on and pump continuously until it runs out of water and overheats. It is recommended to use this pump in conjunction with some kind of pump control system. When using an electronic pump controller, all electrical connections should always be made by a qualified electrician. Extra care should be taken to verify that all components are properly grounded.

NOTICE:

This pump **MUST** be primed prior to first use.

Priming Procedure:

- 1) Connect the pump inlet (the stainless steel female threaded connection) to the water source and remove an air from the line
- 2) Remove the priming bolt (stainless steel bolt at the top near the inlet) and pour approximately 1 cup of water into the pump body.
- 3) Replace and tighten the priming bolt.

Repeat 2-3 times if necessary. If the pump is not pumping water after 3 attempts, verify that the inlet plumbing is supplying water to the pump.

No additional priming should be necessary under normal circumstances.

Rear side and priming/drain ports illustration:

(upper is the priming port, lower is the drain)

